A. CLASSIFICATION OF SUBJECT MATTER IPC(7) :G01N 21/00, 31/22, 15/06, 33/00, 33/48 US CL :422/50, 58, 68.1, 81, 101 According to International Patent Classification (IPC) or to both national classification and IPC B. FIELDS SEARCHED Minimum documentation searched (classification system followed by classification symbols) U.S. : 422/50, 58, 68.1, 81, 101 Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched					
Electronic data base consulted during the international search (name of data base and, where practicable, search terms used) EAST, DERWENT, ACS PUBLICATIONS					
C. DOCUMENTS CONSIDERED TO BE RELEVANT					
Category*	Citation of document, with indication, where appropriate, of the relevant passages			Relevant to claim No.	
A	US 6,264,825 B1 (BLACKBURN et al.) 24 JULY 2001.			1-22	
A, P	US 6,491,666 B1 (SANTINI, Jr. et al.) 10 DECEMBER 2002.			1-22	
A	US 5,292,801 A (AVNIR et al.) 08 MARCH 1994. US 5,300,564 A (AVNIR et al.) 05 APRIL 1994. US 5,304,487 A (WILDING et al.) 19 APRIL 1994. US 5,726,026 A (WILDING et al.) 10 MARCH 1998.			1-22	
A				1-22	
A				1-22	
A				1-22	
Further documents are listed in the continuation of Box C. See patent family annex. Special categories of cited documents: "I" later document published after the international filing date or priority					
"A" document defining the general state of the art which is not the principle			ication but cited to understand		
"E" ea	considered novel or cannot be considered				
cited to establish the publication date of another citation or other special reason (as specified) "O" document referring to an oral disclosure, use, exhibition or other combined		"Y" document of p considered to combined with	n the document is taken alone ment of particular relevance; the claimed invention cannot be idered to involve an inventive step when the document is bined with one or more other such documents, such combination		
"P" do	means being obvious to a person skilled in document published prior to the international filing date but later "&" document member of the same pater than the priority date claimed				
		Date of mailing of the international search report			
08 SEPTEMBER 2003		Q3 OCT 2003			
Name and mailing address of the ISA/US Commissioner of Patents and Trademarks Box PCT Washington, D.C. 20231		Authorized officer BRIAN SINES SINES			
Facsimile N			Telephone No. (703) 308-0661		

Facsimile No. (703) 305-3230